

*Rec'd by
John J. Doll, Director
Technology Center 1600
FEB 26 2004
John Doll*

I. AMENDMENTS

IN THE CLAIMS

Cancel claims 3-15, 21-26, and 31-37 without prejudice to renewal.

Please enter the amendments to claims 27-29 and 38, as shown below.

1. (Previously presented) A glycosyl sulfotransferase-3 (GST-3) polypeptide present in other than its natural environment, wherein said GST-3 polypeptide is encoded by a nucleic acid comprising a nucleotide sequence having at least about 75% identity to SEQ ID NO:01.

2.-15. (Canceled)

16. (Currently amended) A glycosyl sulfotransferase-3 (GST-3) polypeptide present in other than its natural environment, wherein said GST-3 polypeptide comprises comprising an amino acid sequence having at least about 60% amino acid sequence identity to the amino acid sequence set forth in SEQ ID NO:02.

17. (Previously presented) The GST-3 polypeptide of claim 1, wherein said polypeptide is encoded by a nucleic acid comprising a nucleotide sequence having at least about 90% identity to SEQ ID NO:01.

18. (Previously presented) The GST-3 polypeptide of claim 1, wherein said polypeptide is encoded by a nucleic acid comprising a nucleotide sequence having at least about 95% identity to SEQ ID NO:01.

19. (Previously presented) The GST-3 polypeptide of claim 1, wherein said polypeptide comprises the amino acid sequence set forth in SEQ ID NO:02.

20. (Previously presented) The GST-3 polypeptide of claim 1, wherein said polypeptide catalyzes the transfer of a sulfate group from a donor compound to a selectin ligand.

21.-26. (Canceled)

27. (Currently Amended) The GST-3 polypeptide of claim 20 or claim 40 ~~26~~, wherein the selectin ligand is an E-selectin ligand.

28. (Currently Amended) The GST-3 polypeptide of claim 20 or claim 40 ~~26~~, wherein the selectin ligand is a P-selectin ligand.

29. (Currently Amended) The GST-3 polypeptide of claim 20 or claim 40 ~~26~~, wherein the selectin ligand is an L-selectin ligand.

30. (Previously presented) The GST-3 polypeptide of claim 29, wherein the L-selectin ligand is selected from GlyCAM-1, CD34, MAdCAM-1, Sgp200, and podocalyxin.

31.-37. (Canceled)

38. (Currently Amended) A composition comprising a polypeptide according to claim 1 or claim 16 ~~any one of claims 1, 16, 21, and 22~~.

39. (New) The GST-3 polypeptide of claim 16, wherein said polypeptide comprises the amino acid sequence set forth in SEQ ID NO:02.

40. (New) The GST-3 polypeptide of claim 16, wherein said polypeptide catalyzes the transfer of a sulfate group from a donor compound to a selectin ligand.